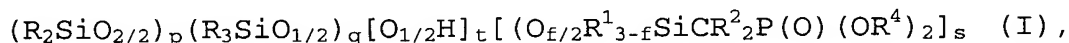


**Claims**

1. A method for the production of phosphonic ester-modified organosiloxanes of the general formula

5



in which

**R** is a hydrogen atom or a monovalent, optionally  
10 -CN-, -NCO-,  $NR^5_2$ -, -COOH-, -COOR<sup>5</sup>-, -halogen-,  
-acryloyl-, -epoxy-, -SH-, -OH- or -CONR<sup>5</sup><sub>2</sub>-  
substituted Si-C-bonded C<sub>1</sub>-C<sub>20</sub> hydrocarbon radical  
or C<sub>1</sub>-C<sub>15</sub> hydrocarbonoxy radical in which one or  
more nonadjacent methylene units in each case may  
15 be replaced by groups -O-, -CO-, -COO-, -OCO- or  
-OCOO-, -S- or -NR<sup>5</sup>- and in which one or more  
nonadjacent methine units may be replaced by  
groups, -N=, -N=N- or -P=,

**R<sup>1</sup>** is a hydrogen atom or a monovalent, optionally  
20 -CN-, -NCO-, -COOH-, -COOR<sup>5</sup>-, -halogen-,  
-acryloyl-, -SH-, -OH- or -CONR<sup>5</sup><sub>2</sub>- substituted Si-  
C-bonded C<sub>1</sub>-C<sub>20</sub> hydrocarbon radical or C<sub>1</sub>-C<sub>15</sub>  
hydrocarbonoxy radical in which one or more  
nonadjacent methylene units in each case may be  
25 replaced by groups -O-, -CO-, -COO-, -OCO-, or  
-OCOO-, -S-, or -NR<sup>5</sup>- and in which one or more  
nonadjacent methine units may be replaced by  
groups, -N=, -N=N- or -P=,

**R<sup>2</sup>** is hydrogen or an optionally -CN- or halogen-  
30 substituted C<sub>1</sub>-C<sub>20</sub> hydrocarbon radical,

**R<sup>4</sup>** is hydrogen or an optionally -CN- or halogen-  
substituted C<sub>1</sub>-C<sub>20</sub> hydrocarbon radical or  
substituted or unsubstituted polyalkylene oxides  
having 1 to 4000 carbon atoms,

35 **R<sup>5</sup>** is hydrogen or an optionally -CN- or halogen-  
substituted C<sub>1</sub>-C<sub>10</sub> hydrocarbon radical,

**p** is 0 or an integer of from 1 to 100 000,

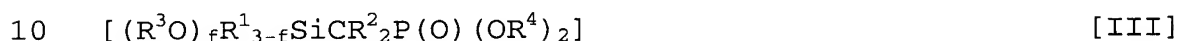
**q** is 0 or an integer of from 1 to 100 000,

**f** is the number 1 or 2 or 3,  
**s** is an integer which is at least 1 and  
**t** is 0 or an integer which is at least 1,  
**p+q** being an integer which is at least 1,

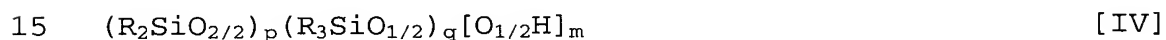
5

characterized in that

at least one silane of the formula



is reacted with at least one silicon compound of the  
general formula



where

**R<sup>3</sup>** is hydrogen or an optionally -CN- or halogen-atom-  
substituted C<sub>1</sub>-C<sub>20</sub> hydrocarbon radical, and

20 **m** is an integer 1 or 2,

**R**, **R<sup>1</sup>**, **R<sup>2</sup>**, **R<sup>4</sup>**, **p**, **q**, **f** and **s** have the above definitions.

25 2. The method of claim 1, characterized in that the  
sum **p + q** is an integer which is at least 2.

3. The method of claim 1 or 2, characterized in that  
it is carried out in the presence of catalyst.

30 4. The method of one or more of claims 1 to 3,  
characterized in that it is carried out at  
temperatures of 0 to 200°C.

35 5. The method of one or more of claims 1 to 4,  
characterized in that it is carried out in an  
inert gas atmosphere.